

Building Height Handout

(for all types of construction)
Updated 2017

How to Calculate Building Height

If measuring for average base elevation, the first step is to draw the smallest rectangle possible that fits around the footprint of the building. Measure the elevation of the midpoints of each line of the rectangle. The average elevation of those four points represents the 'average base elevation'. The maximum height is measured from the average base elevation to the highest point of the roofline. However, in Historic Districts and Central Business District (B-3), building height is measured from the highest point of the sidewalk. (see steps on page 2)

When are Height Calculations Needed? All permit applications for new buildings or additions that alter the height must have complete height calculations.

When are Surveys Required? If the height of the building is within one (1) foot of the maximum building height, surveys are required from a professional land surveyor. Refer to the Everett Municipal Code (EMC) 19.39.180.

For example, if the height calculations for your proposed garage measures 14'-6" (between 14 feet and 15 feet); surveys will be required. The attached two forms: <u>Base Elevation Survey</u> and <u>Height Survey</u> will need to be completed by a surveyor. Submit the Base Elevation Survey with your permit application prior to land disturbance. The Height Survey form, used to verify the building's height, will need to be submitted to the City inspector at the time the framing inspection occurs.

What is the Maximum Height Allowed in the City of Everett? The maximum height varies by zone and type of structure. You may check the Zoning Code online at www.everettwa.gov. NOTE: The numbers in parenthesis in the Development Standards Table may have additional height requirements or refer you to another section of the code for height information.

City Staff Assistance: City of Everett Permit Services Counter

3200 Cedar Street, 2nd Floor, Everett, WA 98201

425.257.8810 or planning@everettwa.gov

M-F 7:30am – 4pm, closed 12-1

How to Calculate Building Height and Show on Your Plans

Step 1) Find the midpoints.

Stake out the smallest rectangle that encompasses the corners of the proposed building. Label the midpoints "A, B, C, and D" on the site plan.

Step 2) Select Bench Mark = 100'.

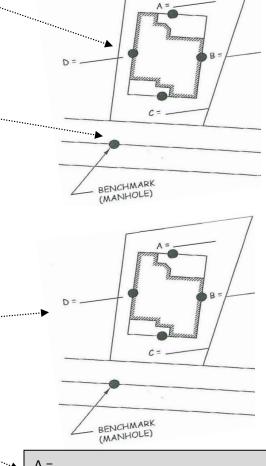
Select a fixed bench mark or datum point such as the top of a utility cover, monument in road, or other permanent point that cannot be easily moved. Use the nominal bench mark elevation of 100' or a surveyed datum elevation. Show your bench mark and the starting elevation on the site plan.

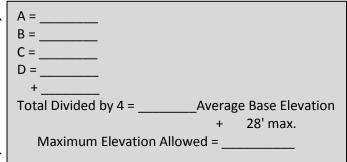
Step 4) Calculate the average base elevation and maximum elevation.

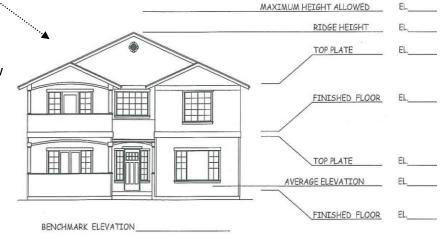
Add all midpoints together and divide by 4 to determine the average base elevation. Add the maximum height to the average base elevation to determine the maximum elevation allowed.

Step 5) Show the height calculations.

On your site plan, show your height calculations as shown in the table above. Also show one elevation view of your proposed structure with elevation and height calculations.







Base Elevation Survey

(For Surveyor Use Only <u>IF</u> a survey is required. Instructions: Complete this form to determine the average base elevation of the proposed footprint or to locate the highest point of the sidewalk, whichever applies. This form is to be submitted with the building permit application. Include these calculations on the site plan and building plans. During framing, the Height Survey form will be required for the framing inspection. Contact the Planning Department at 425.257.8731 if the structure does not meet the height limit.)

| Date of Survey: | | PERMIT # | | |
|---|------------------|--|-------------------|---|
| Property Local (address and/or p Description of | • | | | |
| Bench Mark El | evation: | | | |
| A = B = C = D = | | | BOX 1 | BOX 2 Highest point of the sidewalk EL |
| A+B+C+D = | eight of | Average Ba (feet) Maximum Elevation | | *Submit a map showing the location of the highest point of the sidewalk abutting the property. |
| Check: | | | | |
| <u>BOX 1</u> □ | | | | measured the grade at the |
| - | | d structure at the Llur the property above. | ndisturbed gro | ound elevations / 🗆 approved |
| τοροβιαριί | y cicvations for | the property above. | | |
| BOX 2 of the side | I, | | _, certify that I | measured the highest point |
| - | Signa | ture of Surveyor | | Date |
| Company | | | _ | |
| Address | | | _ | |
| Phone/Email | | | _ | seal/stamp |

Height Survey

(For Surveyor Use Only <u>IF</u> a survey is required. Instructions: Complete this form prior to the framing inspection. This form will need to be provided to the City inspector at the framing inspection. Contact the Planning Department at 425.257.8731 if the structure does not meet the height limit.)

| PERMIT # |
|--|
| |
| |
| n Survey for Box 1 or 2 and complete Box 3) |
| BOX 1 BOX 2 |
| Highest point of the sidewalkEL |
| *Submit a map showing the location of the highest point of the sidewalk. |
| |
| t of Structure*: (feet) or from the sidewalk to top of roof. |
| |
| measured the height of the structure from |
| t point of sidewalk to the top of the |
| ′ □ doesn't meet the height limit. |
| |
| Date |
| _ |
| _ |
| _ |
| seal/stamp |
| |